

Synthesis

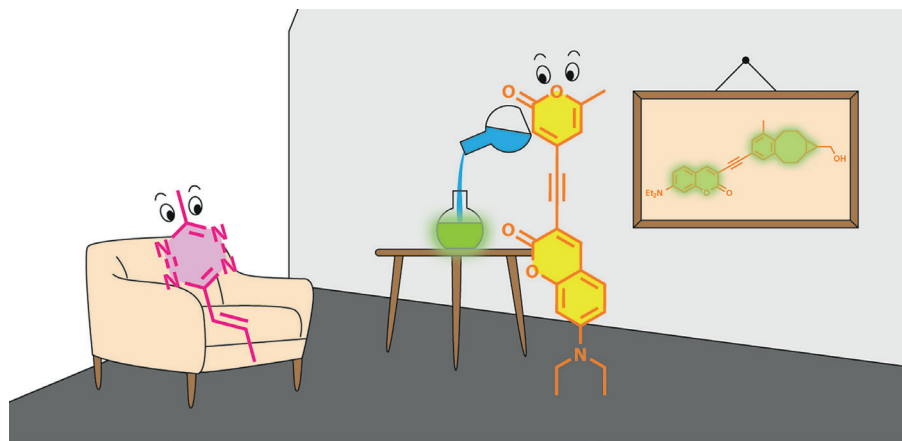
Reviews and Full Papers in Chemical Synthesis

September 1, 2022 • Vol. 54, 3667–3905

Special Section

dedicated to Prof. Ferenc Fülöp

Guest editor: Loránd Kiss



Beyond the Bioorthogonal Inverse-Electron-Demand Diels–Alder Reactions of Tetrazines: 2-Pyrone-Functionalized Fluorogenic Probes

G. B. Cserép, K. Németh, Á. Szatmári, F. Horváth, T. Imre, K. Németh, P. Kele

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Synthesis

Synthesis 2022, 54, 3667–3697
DOI: 10.1055/a-1845-3810

T. Tian

Q. Chen

Z. Li

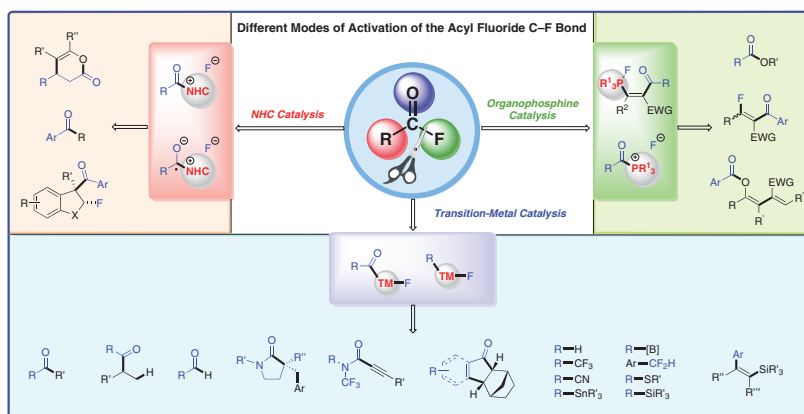
Y. Nishihara*

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Recent Advances in C–F Bond Activation of Acyl Fluorides Directed toward Catalytic Transformation by Transition Metals, *N*-Heterocyclic Carbenes, or Phosphines

Review

3667



Synthesis

Synthesis 2022, 54, 3698–3707
DOI: 10.1055/a-1828-2367

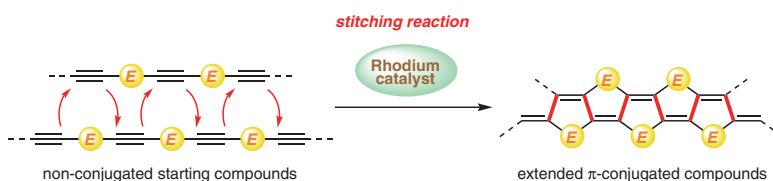
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Rhodium-Catalyzed Stitching Reactions for the Facile Synthesis of Extended π -Conjugated Compounds

Short Review

3698



Synthesis

Synthesis 2022, 54, 3708–3718
DOI: 10.1055/a-1833-8813

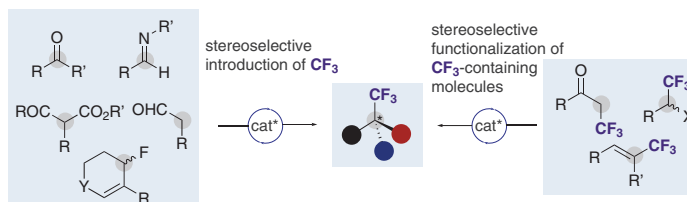
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Catalytic Asymmetric Construction of CF₃-Substituted Chiral sp³ Carbon Centers

Short Review

3708



Synthesis

Synthesis 2022, 54, 3719–3728
DOI: 10.1055/a-1811-8503

X. Kang

S. Lai

X. Liang

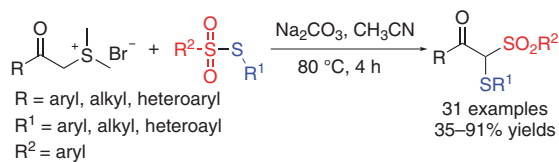
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1,1-Difunctionalization of α -Carbonyl Sulfur Ylides with Thiosulfonates: Synthesis of β -Keto Thiosulfones

Feature

3719



Synthesis

Synthesis 2022, 54, 3729–3738
DOI: 10.1055/a-1790-0869

J. Yu

S. Wen

Q. Tian

Y. Chen

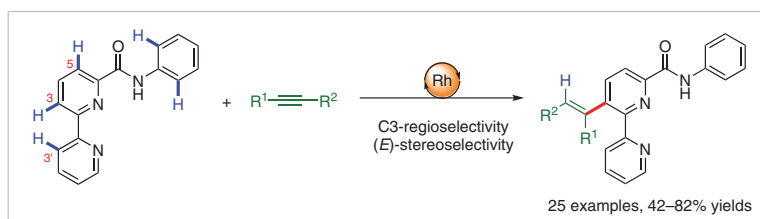
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Rhodium(I)-Catalyzed Regioselective C–H Alkenylation of 2,2'-Bipyridine Derivatives with Alkynes

Feature

3729



Synthesis

Synthesis **2022**, *54*, 3739–3752
DOI: 10.1055/a-1786-6496

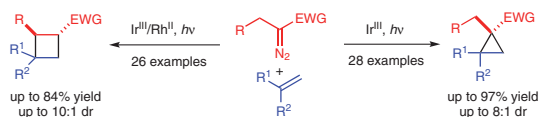
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L. Wen
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Visible-Light-Induced Catalysis: A Regioselectivity Switch between [2+1] and [2+2] Cycloaddition of Diazocarbonyls with Olefins

Feature

3739



Synthesis

Synthesis **2022**, *54*, 3753–3760
DOI: 10.1055/a-1811-8679

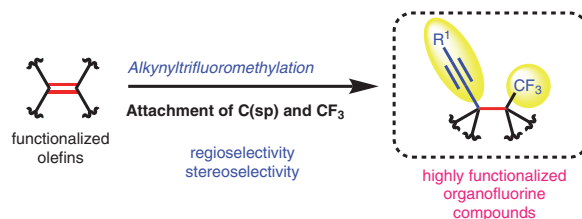
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Developments in the Alkynyltrifluoromethylations of Alkenes and Alkynes

Special Topic

3753



Synthesis

Synthesis **2022**, *54*, 3761–3770
DOI: 10.1055/s-0040-1719891

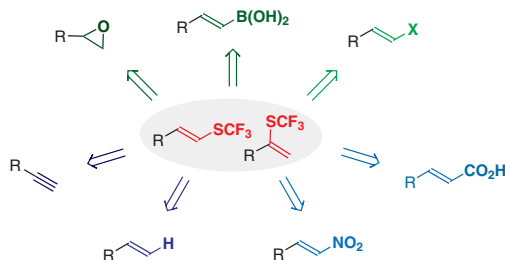
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Direct Synthesis of Disubstituted Trifluoromethylthiolated Alkenes

Special Topic

3761



Synthesis

Synthesis 2022, 54, 3771–3784
DOI: 10.1055/a-1647-7292

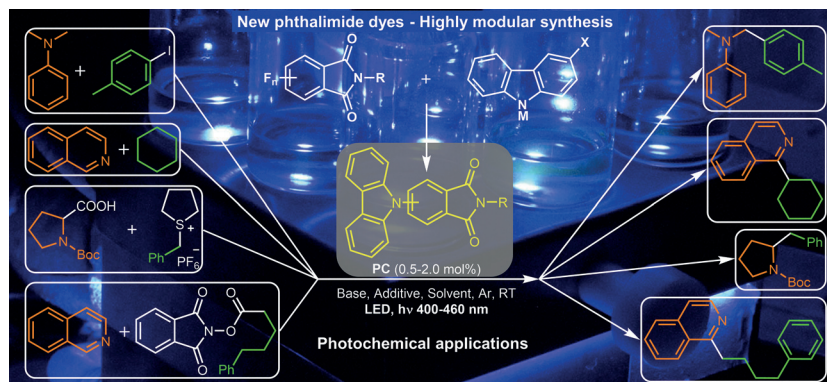
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Modular Synthesis of Carbazole-Substituted Phthalimides as Potential Photocatalysts

Special Topic

3771



Synthesis

Synthesis 2022, 54, 3785–3792
DOI: 10.1055/s-0041-1737346

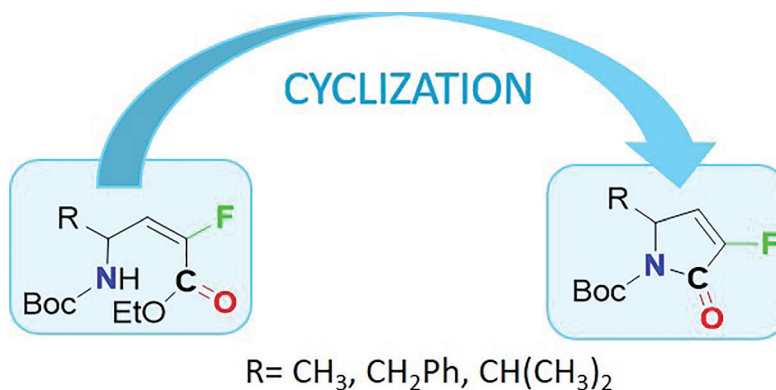
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Fluorinated Olefinic Lactams: The Case of Amino Acids – Preparation and Mechanistic Studies

Special Topic

3785



Synthesis

Synthesis 2022, 54, 3793–3800
DOI: 10.1055/s-0040-1719879

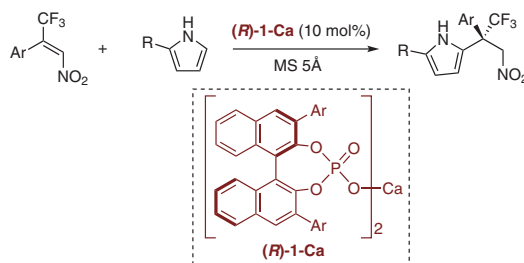
T. Uchikura
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Chiral Calcium Phosphate Catalyzed Enantioselective Synthesis of All-Carbon Quaternary Center by Friedel–Crafts Alkylation Reaction of Pyrroles and Trifluoromethylated Nitrostyrenes

Special Topic

3793



Synthesis

Synthesis **2022**, *54*, 3801–3808
DOI: 10.1055/a-1689-3626

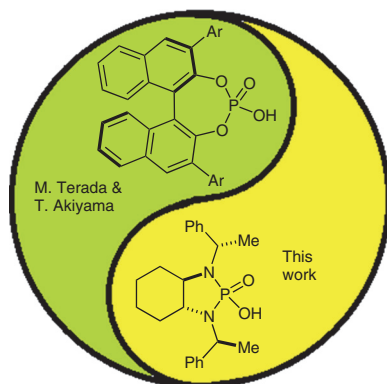
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On the Synthesis of a Novel Chiral Phosphorodiamidic Acid Containing the α -Phenylethyl Moiety: Insights on its Conformation and Reactivity

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3801



Synthesis

Synthesis **2022**, *54*, 3809–3816
DOI: 10.1055/s-0040-1720028

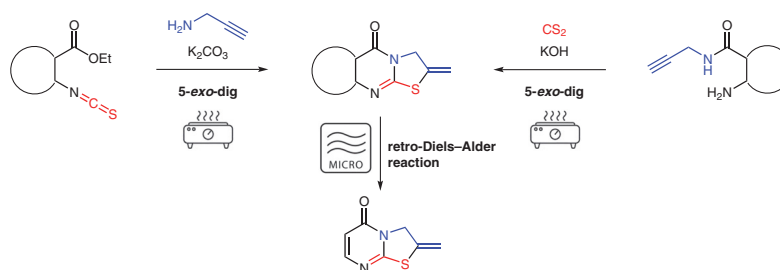
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Synthesis of Alicyclic 2-Methylenethiazolo[2,3-*b*]quinazolinone Derivatives via Base-Promoted Cascade Reactions

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3809



Synthesis

Synthesis **2022**, *54*, 3817–3822
DOI: 10.1055/s-0040-1719890

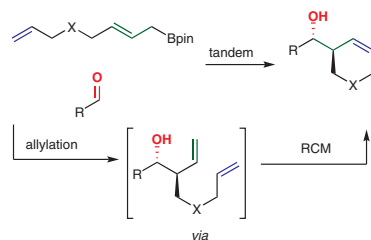
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Heteroatom-Tethered ω -Alkenylallylboronates: Stereoselective Synthesis of Heterocyclic Derived Alcohols

Special Topic

3817



Synthesis

Synthesis 2022, 54, 3823–3830
DOI: 10.1055/s-0040-1719886

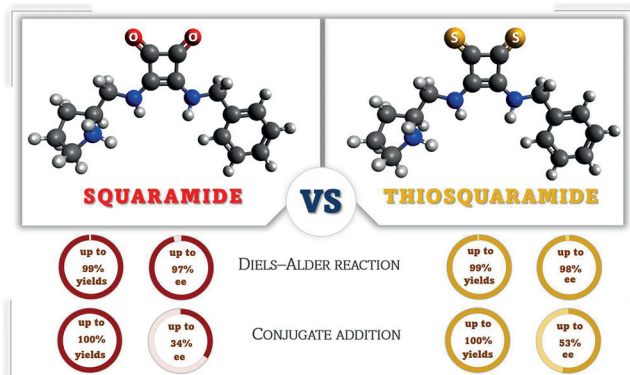
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Application of Proline-Derived (Thio)squaramide Organocatalysts in Asymmetric Diels–Alder and Conjugate Addition Reactions

Special Topic

3823



Synthesis

Synthesis 2022, 54, 3831–3844
DOI: 10.1055/s-0040-1719887

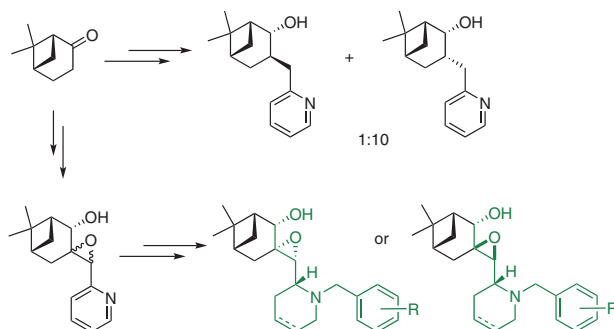
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Stereoselective Synthesis and Applications of Pinane-Based Chiral 1,4-Amino Alcohol Derivatives

Special Topic

3831



Expressed cytotoxic activity was observed on MDA-MB-231, MCF-7, and A2780 human cancer cell lines

Synthesis

Synthesis 2022, 54, 3845–3857
DOI: 10.1055/a-1742-2005

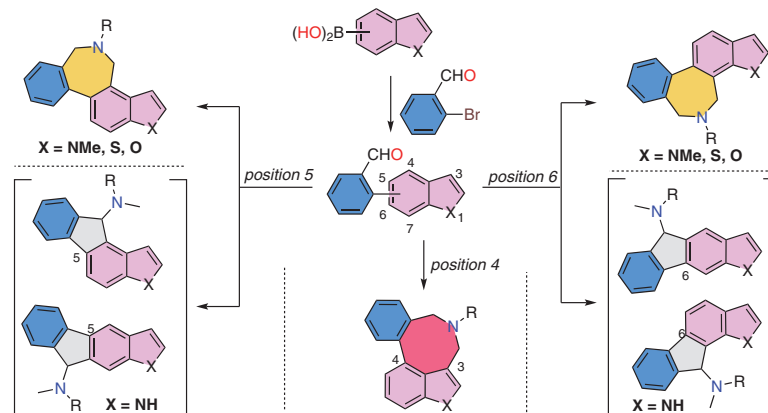
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Electrocyclization and Unexpected Reactions of Non-Stabilized $\alpha,\beta,\gamma,\delta$ -Unsaturated Azomethine Ylides: Experimental and Theoretical Studies

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3845



Synthesis

Synthesis 2022, 54, 3858–3866
DOI: 10.1055/a-1761-4672

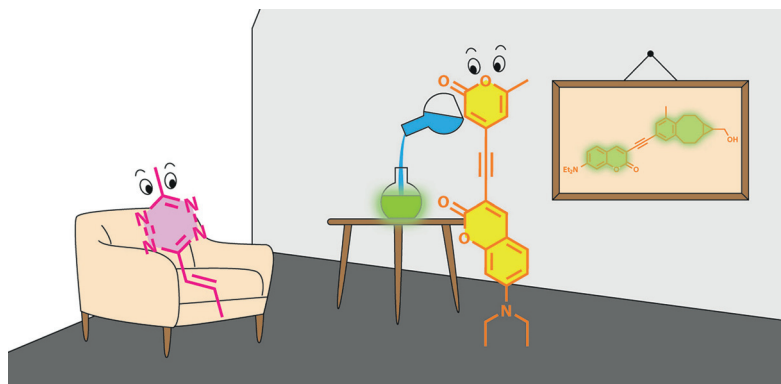
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Beyond the Bioorthogonal Inverse-Electron-Demand Diels–Alder Reactions of Tetrazines: 2-Pyrene-Functionalized Fluorogenic Probes

Special Topic

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Synthesis

Synthesis 2022, 54, 3867–3873
DOI: 10.1055/s-0041-1737830

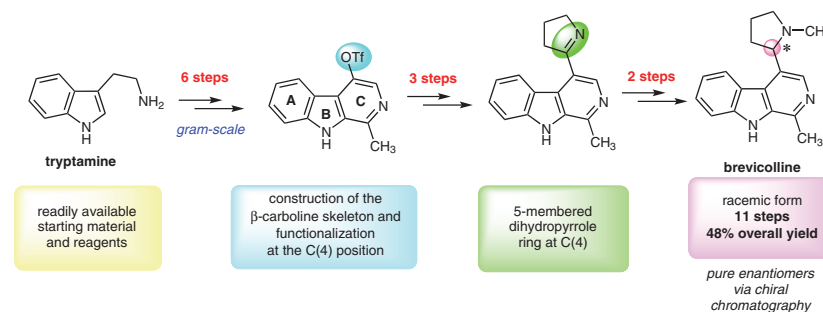
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Synthesis of Racemic and Enantiopure Forms of β -Carboline Alkaloid Brevicolline

Special Topic

3867



Synthesis

Synthesis 2022, 54, 3874–3882
DOI: 10.1055/s-0040-1719885

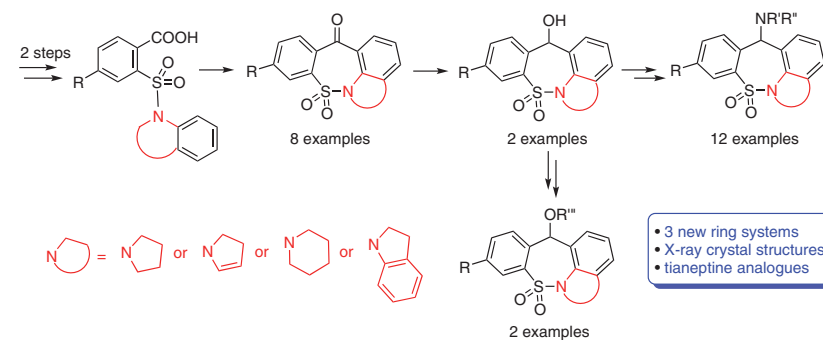
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Towards Tianeptine Analogues: Synthesis of New Ring Systems Containing a Dibenzo[*c,f*][1,2]thiazepine *S,S*-Dioxide Core

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3874



Synthesis

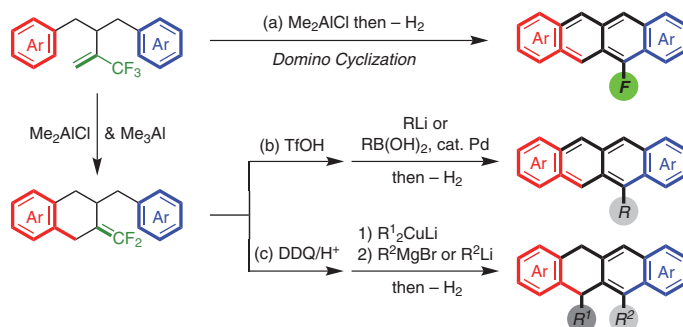
Synthesis 2022, 54, 3883–3898
DOI: 10.1055/s-0037-1610791

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Construction of Substituted [4]Acene Frameworks Based on Double Cationic Cyclizations of Fluoroalkenes

Special Topic

3883



Synthesis

Synthesis 2022, 54, 3899–3905
DOI: 10.1055/a-1504-8924

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Synthesis of Cyclic Phosphinates by Microwave-Assisted Ionic-Liquid-Promoted Alcoholysis

Special Topic

3899

